	Application No.	Applicant(s)
Notice of Allowability	10/787,409	KIM ET AL.
	Examiner	Art Unit
	Lucy P. Chien	2871
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is significant or communication.	n this application. If not included unication will be mailed in due course. THIS
1. 🔀 This communication is responsive to application filed on 2	<u>/27/2004</u> .	
2. X The allowed claim(s) is/are 1-9,19,21-28 and 34-40.		
 3. Acknowledgment is made of a claim for foreign priority units a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		or (f).
2. ☐ Certified copies of the priority documents have		n No
3. ☐ Copies of the certified copies of the priority do	* *	
International Bureau (PCT Rule 17.2(a)).	caments have been received	an this national stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	MENT of this application. itted. Note the attached EXA	AMINER'S AMENDMENT or NOTICE OF
INFORMAL PATENT APPLICATION (PTO-152) which give		declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mus		
(a) including changes required by the Notice of Draftspers		v (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	E □ Notice of In	formal Datant Application (DTO 452)
 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 		formal Patent Application (PTO-152) ummary (PTO-413),
	Paper No./	Mail Date .
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	08), 7. 🔀 Examiner's	Amendment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	Statement of Reasons for Allowance
-	9. 🗌 Other	-

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Valerie Hayes on 7/20/2006.

Cancelled Claims: 10-18,20,29-33.

Election/Restrictions

Claim 1-9, 19, 21-28 directed to an allowable product. Pursuant to the procedures set forth in MPEP § 821.04(B), claim 34-40, directed to the process of making or using an allowable product, previously withdrawn from consideration as a result of a restriction requirement, are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Because all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement as set forth in the Office action mailed on 10/12/2005 is hereby withdrawn. In view of the withdrawal of the restriction requirement as to the rejoined inventions, applicant(s) are advised that if any claims including all the limitations of an allowable product claim or rejoined process claim are presented in a continuation or divisional application, such claims may be subject to

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provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Claim 1-9, 19, 21-28,34-40 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding Claim 1,

Chung et al (US 20010022634) discloses (Figure 9A-C) a transflective liquid crystal comprising a thin film transistor (where S is located) disposed at a corner of a pixel region, the thin film transistor including a gate electrode (152) a semiconductor layer (174) a source electrode (162) and a drain electrode (164) a reflector (156 where P is located) disposed in the pixel region and spaced apart from the thin film transistor, wherein the pixel region is divided into a reflective portion (where P is located) including the reflector and a transmissive portion (where 154 is located) absent of the reflector.

Chung et al does not disclose the reflector formed of the same material as one of the gate, source, and drain electrodes, a color filter disposed within the pixel region, the color filter having one of red, green, and blue colors a black matrix over the thin film transistor corresponding to color filter borders of adjacent pixel regions

Kikkawa et al (US 6879359) (figure 2) discloses the reflector (23) formed of the same material (same layer as 22) as one of the gate, source, and drain electrodes. A color filter (30) disposed within the pixel region, the color filter (30) having one of red, green, and blue colors a black matrix over the thin film transistor corresponding to color

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filter borders of adjacent pixel regions, and a pixel electrode (31) formed of a transparent conductive material adjacent to the color filter.

The prior art of record does not teach nor suggest a second pixel electrode on the color filter contacting the first pixel electrode.

Claim 2,5,8,9,19,21, are dependent on Claim 1, therefore is allowed.

Regarding Claim 3,6

The prior art of record does not teach nor suggest wherein the reflector and the gate electrode have double-layered structures including a second layer on a first layer, the second layer of the reflector is partially removed to expose an underlying portion of the first layer of the reflector.

Claim 4 is dependent on Claim 3, and Claim 6 is dependent on Claim 7, therefore is allowed.

Regarding Claim 22,26

The prior art of record does not teach nor suggest a first buffer pattern disposed in a pixel region on the substrate and spaced apart from the gate electrode; a reflector on the second buffer pattern, the reflector formed of the same material as the source and drain electrodes. And a second buffer pattern formed of the same material as the semiconductor layer and formed during the same time as formation of semiconductor layer, the second buffer pattern disposed above the first buffer pattern in the pixel region,

Claims 23-25 are dependent on Claim 22 therefore are allowed.

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Claims 27,28 are dependent on Claim 26 therefore are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lucy P. Chien whose telephone number is 571-272-8579. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571)272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Lucy P Chien Examiner Art Unit 2871

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